

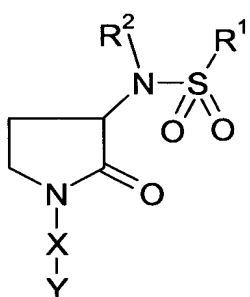
Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

In the Claims:

What is claimed is:

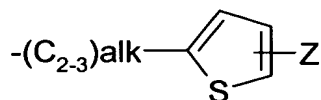
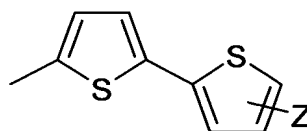
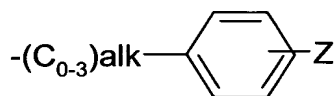
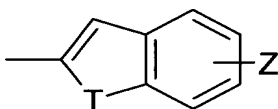
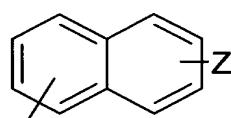
1. (Currently amended) A compound of formula (I):



(I)

wherein:

R¹ represents a group selected from:



each ring of which optionally ~~contains~~ includes a further heteroatom N,
 Z represents an optional substituent halogen,
 alk represents alkylene or alkenylene,
 T represents S, O or NH;

R² represents hydrogen, -C₁₋₆alkyl, -C₁₋₃alkylCONR^aR^b, -C₁₋₃alkylCO₂C₁₋₄alkyl, -CO₂C₁₋₄alkyl or -C₁₋₃alkylCO₂H;

R^a and R^b independently represent hydrogen, -C₁₋₆alkyl, or together with the N atom to which they are bonded form a 5-, 6- or 7- membered non-aromatic heterocyclic ring optionally containing an additional heteroatom selected from O, N or S(O)_n, optionally substituted by C₁₋₄alkyl, ~~and optionally the S heteroatom is substituted by O, i.e. represents S(O)_n;~~

n represents 0-2;

X represents phenyl or a 5- or 6- membered aromatic heterocyclic group ~~containing~~ consisting of at least one heteroatom selected from O, N or S, each of which is optionally substituted by 0-2 groups selected from: halogen, -C₁₋₄alkyl, -C₂₋₄alkenyl, -CN, -CF₃, -NR^aR^b, -C₀₋₄alkylOR^e, -C(O)R^f and -C(O)NR^aR^b;

R^e represents hydrogen or -C₁₋₆alkyl;

R^f represents -C₁₋₆alkyl;

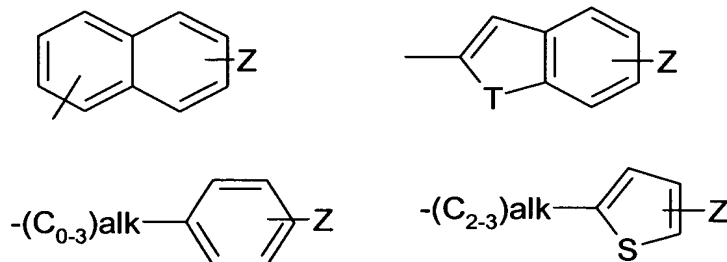
Y represents a group -C(R^x)(R^z)C₀₋₂alkylNR^cR^d;

R^x represents C₁₋₄alkyl optionally substituted by halogen;

R^z represents hydrogen or C₁₋₄alkyl optionally substituted by halogen;

R^c and R^d independently represent hydrogen, -C₁₋₆alkyl, -C₁₋₄alkylOH, or together with the N atom to which they are bonded form a 4-, 5-, 6- or 7- membered non-aromatic heterocyclic ring, the 5-, 6- or 7- membered non-aromatic heterocyclic ring optionally ~~containing~~ consisting of an additional heteroatom selected from O, N or S, optionally substituted by C₁₋₄alkyl; ~~and/or a~~ a pharmaceutically acceptable derivative thereof.

2. (Currently amended) A compound according to claim 1 wherein R¹ represents a group selected from:



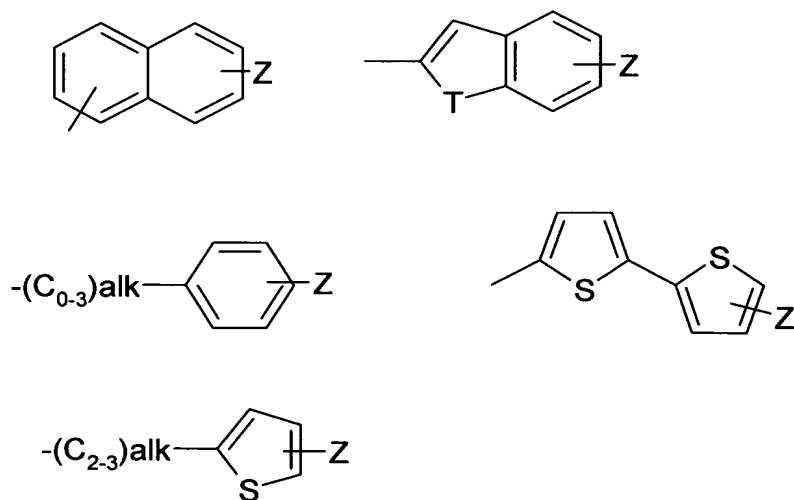
each ring of which optionally ~~contains~~ includes a further heteroatom N,
 Z represents an optional substituent halogen,
 alk represents alkylene or alkenylene,
 T represents S, O or NH;
~~and/or pharmaceutically acceptable derivative thereof.~~

3. (Currently amended) A compound according to claim 1 ~~or claim 2~~
 wherein R² represents hydrogen ~~and/or pharmaceutically acceptable derivative~~
~~thereof.~~

4. (Currently amended) A compound according to ~~any one of~~ claims 1-3
 wherein X represents phenyl or a 5- or 6- membered aromatic heterocyclic
 group ~~containing~~ consisting of at least one heteroatom selected from O, N or S,
 each of which is optionally substituted by 0-2 groups selected from: halogen,
~~-C₁₋₄alkyl and -NR^aR^b and/or pharmaceutically acceptable derivative thereof.~~

5. (Currently amended) A compound according to ~~any one of~~ claims 1-4
 wherein Y represents a group -C(R^x)(R^z)NR^cR^d ~~and/or pharmaceutically~~
~~acceptable derivative thereof.~~

6. (Currently amended) A compound according to claim 1 wherein R¹
 represents a group selected from:



each ring of which optionally ~~contains~~ includes a further heteroatom N,

Z represents an optional substituent halogen,
alk represents alkylene or alkenylene,
T represents S, O or NH;

R² represents hydrogen, -C₁₋₆alkyl, -C₁₋₃alkylCONR^aR^b, -C₁₋₃alkylCO₂C₁₋₄alkyl, -CO₂C₁₋₄alkyl or -C₁₋₃alkylCO₂H;

R^a and R^b independently represent hydrogen, -C₁₋₆alkyl, or together with the N atom to which they are bonded form a 5-, 6- or 7- membered non-aromatic heterocyclic ring optionally ~~containing~~ consisting of an additional heteroatom selected from O, N or S(O)_n, optionally substituted by C₁₋₄alkyl, ~~and optionally the S heteroatom is substituted by O, i.e. represents S(O)_n;~~

X represents phenyl or a 5- or 6- membered aromatic heterocyclic group ~~containing~~ consisting of at least one heteroatom selected from O, N or S, each of which is optionally substituted by 0-2 groups selected from: halogen, -C₁₋₄alkyl, -C₂₋₄alkenyl, -CN, -CF₃, -NR^aR^b, -C₀₋₄alkylOR^e, -C(O)R^f and -C(O)NR^aR^b;

R^e represents hydrogen or -C₁₋₆alkyl;

R^f represents -C₁₋₆alkyl;

Y represents a group -C(R^x)(R^z)C₀₋₂alkylNR^cR^d;

R^x represents C₁₋₄alkyl optionally substituted by halogen (~~e.g. CF₃, CH₂CF₃~~);

R^z represents hydrogen or C₁₋₄alkyl optionally substituted by halogen (~~e.g. CF₃, CH₂CF₃~~);

R^c and R^d independently represent hydrogen, -C₁₋₆alkyl, -C₁₋₄alkylOH, or together with the N atom to which they are bonded form a 5- or 6- membered non-aromatic heterocyclic ring optionally containing an additional heteroatom selected from O, N or S, optionally substituted by C₁₋₄alkyl;
~~and pharmaceutically acceptable derivatives thereof.~~

7. (Currently amended) A compound ~~according to claim 4~~ selected from:
(E)-2-(5-Chloro-2-thienyl)-N-(1-[4-[1-(dimethylamino)ethyl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)ethenesulfonamide;
(E)-2-(5-Chloro-2-thienyl)-N-(1-[2-fluoro-4-[1-(4-morpholinyl)ethyl]phenyl]-2-oxo-3-pyrrolidinyl)ethenesulfonamide;
(E)-2-(5-Chloro-2-thienyl)-N-[1-(2-fluoro-4-{1-[(2-hydroxyethyl)(methyl)amino]ethyl}phenyl)-2-oxo-3-pyrrolidinyl]ethenesulfonamide;

(E)-*N*-(1-[4-(1-Aminoethyl)-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)-2-(5-chloro-2-thienyl)ethanesulfonamide;
 6-Chloro-*N*-(1-[4-[1-(dimethylamino)ethyl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)-1-benzothiophene-2-sulfonamide;
(E)-2-(5-Chloro-2-thienyl)-*N*-((3*S*)-1-{4-[(1*S*)-1-(dimethylamino)ethyl]-2-fluorophenyl}-2-oxo-3-pyrrolidinyl)ethanesulfonamide;
 6-Chloro-*N*-((3*S*)-1-{4-[(1*S*)-1-(dimethylamino)ethyl]-2-fluorophenyl}-2-oxo-3-pyrrolidinyl)-2-naphthalenesulfonamide;
 6-Chloro-*N*-((3*S*)-1-{4-[(1*S*)-1-(dimethylamino)ethyl]-2-fluorophenyl}-2-oxo-3-pyrrolidinyl)-1-benzothiophene-2-sulfonamide;
(E)-2-(5-Chloro-2-thienyl)-*N*-((3*S*)-1-{4-[(1*R*)-1-(dimethylamino)ethyl]-2-fluorophenyl}-2-oxo-3-pyrrolidinyl)ethanesulfonamide;
 6-Chloro-*N*-((3*S*)-1-{4-[(1*R*)-1-(dimethylamino)ethyl]-2-fluorophenyl}-2-oxo-3-pyrrolidinyl)-2-naphthalenesulfonamide;
 6-Chloro-*N*-((3*S*)-1-{4-[(1*R*)-1-(dimethylamino)ethyl]-2-fluorophenyl}-2-oxo-3-pyrrolidinyl)-1-benzothiophene-2-sulfonamide;
(E)-2-(5-Chloro-2-thienyl)-*N*-((3*S*)-1-{4-[(1*R*)-1-(dimethylamino)ethyl]-2,6-difluorophenyl}-2-oxo-3-pyrrolidinyl)ethanesulfonamide;
(E)-2-(5-Chloro-2-thienyl)-*N*-((3*S*)-1-{4-[(1*S*)-1-(dimethylamino)ethyl]-2,6-difluorophenyl}-2-oxo-3-pyrrolidinyl)ethanesulfonamide;
(E)-2-(5-Chloro-2-thienyl)-*N*-((3*S*)-1-{4-[1-(dimethylamino)propyl]-2-fluorophenyl}-2-oxo-3-pyrrolidinyl)ethanesulfonamide;
(E)-2-(5-Chloro-2-thienyl)-*N*-((3*S*)-1-{4-[1-(dimethylamino)-2-methylpropyl]-2-fluorophenyl}-2-oxo-3-pyrrolidinyl)ethanesulfonamide;
(E)-2-(5-Chloro-2-thienyl)-*N*-(1-[4-[1-(dimethylamino)-1-methylethyl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)ethanesulfonamide;
 6-Chloro-*N*-(1-[4-[1-(dimethylamino)-1-methylethyl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)-2-naphthalenesulfonamide;
 6-Chloro-*N*-(1-[4-[1-(dimethylamino)-1-methylethyl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)-1-benzothiophene-2-sulfonamide;
 6-Chloro-*N*-(1-[4-[1-(dimethylamino)ethyl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)-2-naphthalenesulfonamide;
 6-Chloro-*N*-(1-[4-[1-(ethylamino)ethyl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)-2-naphthalenesulfonamide;
 6-Chloro-*N*-(1-[4-[1-[ethyl(methyl)amino]ethyl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)-2-naphthalenesulfonamide;
 6-Chloro-*N*-(1-(2-fluoro-4-{1-[(1-methylethyl)amino]ethyl}phenyl)-2-oxo-3-pyrrolidinyl)-2-naphthalenesulfonamide;
 6-Chloro-*N*-(1-(2-fluoro-4-{1-[methyl(1-methylethyl)amino]ethyl}phenyl)-2-oxo-3-pyrrolidinyl)-2-naphthalenesulfonamide;
N-(1-[4-[1-(1-Azetidinyl)ethyl]-2-fluorophenyl]-2-oxo-3-pyrrolidinyl)-6-chloro-2-naphthalenesulfonamide;
 6-Chloro-*N*-(1-{2-fluoro-4-[1-(1-pyrrolidinyl)ethyl]phenyl}-2-oxo-3-pyrrolidinyl)-2-naphthalenesulfonamide;
 6-Chloro-*N*-(1-{2-fluoro-4-[1-(1-piperidinyl)ethyl]phenyl}-2-oxo-3-pyrrolidinyl)-2-naphthalenesulfonamide;

5'-Chloro-N-((3S)-1-{4-[1-(dimethylamino)ethyl]-2-fluorophenyl}-2-oxo-3-pyrrolidinyl)-2,2'-bithiophene-5-sulfonamide;
(E)-2-(5-Chloro-2-thienyl)-N-((3S)-1-{4-[(1S)-1-(dimethylamino)ethyl]phenyl}-2-oxo-3-pyrrolidinyl)ethenesulfonamide;
(E)-2-(5-Chloro-2-thienyl)-N-((3S)-1-{4-[(1R)-1-(dimethylamino)ethyl]phenyl}-2-oxo-3-pyrrolidinyl)ethenesulfonamide;
6-Chloro-N-((3S)-1-{4-[(1S)-1-(dimethylamino)ethyl]phenyl}-2-oxo-3-pyrrolidinyl)-1-benzothiophene-2-sulfonamide;
6-Chloro-N-((3S)-1-{4-[(1R)-1-(dimethylamino)ethyl]phenyl}-2-oxo-3-pyrrolidinyl)-1-benzothiophene-2-sulfonamide;
(1E)-2-(5-Chloro-2-thienyl)-N-(1-{4-[1-(dimethylamino)ethyl]-2,6-difluorophenyl}-2-oxo-3-pyrrolidinyl)-1-propene-1-sulfonamide; and
6-Chloro-N-(1-{4-[1-(dimethylamino)ethyl]-2,6-difluorophenyl}-2-oxo-3-pyrrolidinyl)-1-benzothiophene-2-sulfonamide;
~~and/or~~ a pharmaceutically acceptable derivative thereof.

8. Cancelled.

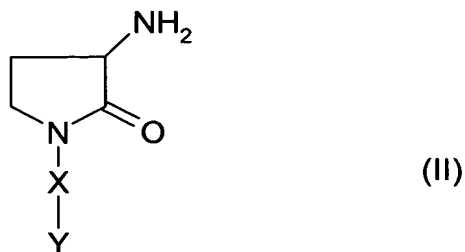
9. (Currently amended) A pharmaceutical composition comprising a compound according to ~~any one of claims 1-7 and/or pharmaceutically acceptable derivative thereof~~ together with at least one pharmaceutical carrier ~~and/or~~ excipient.

10. Cancelled.

11. (Currently amended) A method of treating a patient suffering from a condition susceptible to amelioration by a Factor Xa inhibitor comprising administering a therapeutically effective amount of a compound according to ~~any one of claims 1-7 and/or pharmaceutically acceptable derivative thereof~~.

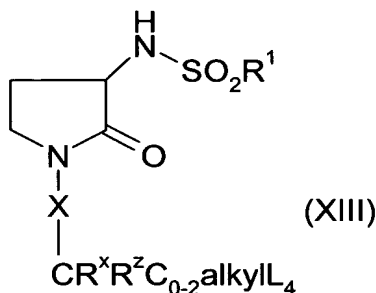
12. (Currently amended) A process for preparing a compound of formula (I) which comprises:

(a) reacting compounds of formula (II) or an acid addition salt thereof with compounds of formula (III) where V is a suitable leaving group:



OR:

(b) by reacting compounds of formula (XIII) with HNR^cR^d :



OR:

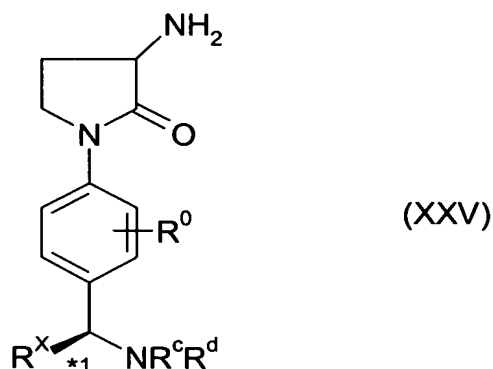
(c) by reacting compounds of formula (I) where R^2 is hydrogen with compounds of formula (XVII):



wherein R^2 is $-\text{C}_{1-6}\text{alkyl}$, $-\text{C}_{1-3}\text{alkylCONR}^a\text{R}^b$, $-\text{C}_{1-3}\text{alkylCO}_2\text{C}_{1-4}\text{alkyl}$, or $-\text{CO}_2\text{C}_{1-4}\text{alkyl}$ and T is a suitable leaving group, optionally followed by removal of the alkyl protecting group where appropriate;

OR:

(d) by reacting a compound of formula (XXV) where X represents phenyl, Y represents $-\text{CH}(\text{R}^x)\text{NR}^c\text{R}^d$, R^c and R^d each represent the same $\text{C}_{1-6}\text{alkyl}$ substituent and R^0 represents 0-2 optional substituents on the phenyl ring selected from: halogen, $-\text{C}_{1-4}\text{alkyl}$, $-\text{C}_{2-4}\text{alkenyl}$, $-\text{CN}$, $-\text{CF}_3$, $-\text{NR}^a\text{R}^b$, $-\text{C}_{0-4}\text{alkylOR}^e$, $-\text{C}(\text{O})\text{R}^f$ and $\text{C}(\text{O})\text{NR}^a\text{R}^b$ and/or an acid addition salt thereof:

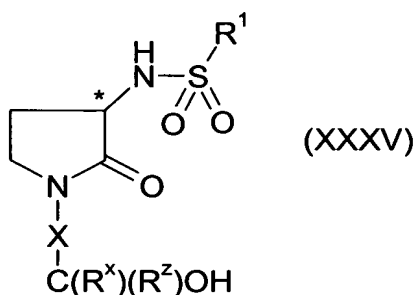


with a compound of formula (III) where V is a suitable leaving group:



OR:

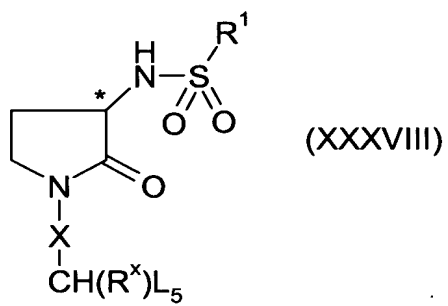
(e) treatment of compounds of formula (XXXV) where Y represents $-C(R^x)(R^z)NR^cR^d$ and R^x and R^z both represent C_{1-4} alkyl and R^2 represents hydrogen:



with hydrogen chloride in the presence of zinc chloride, followed by reaction with HNR^cR^d ;

OR:

(f) by reacting compounds of formula (XXXVIII) where Y represents $-C(R^x)NR^cR^d$, R^x represents C_{1-4} alkyl and R^c and R^d independently represent hydrogen, C_{1-6} alkyl, or together with the N atom to which they are bonded form a 4-, 5-, 6- or 7- membered non-aromatic heterocyclic ring and L_5 is a suitable leaving group:



with HNR^cR^d .